1980 SURVEY OF SPORTFISHING IN PRINCE EDWARD ISLAND

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Published by:

Communications Directorate
Fisheries and Oceans
Ottawa, Ontario
K1A 0E6

DFO/2490

Minister of Supply & Services Canada 1985

Cat. No. Fs 65-2/5-1985E

ISBN 0-662-14178-4

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EXECUTIVE SUMMARY

The sport fishery in Prince Edward Island was examined by means of questionnaires sent to a population sample of resident anglers and a sample of nonresident anglers who purchased licences in the province in 1980. This study, the second in a series carried out at five year intervals, was conducted to provide information on the numbers, origins, and destinations of anglers, their expenditures and investments on activities and equipment used for fishing, as well as the numbers and kinds of fish harvested and amount of fishing effort expended.

Angler Profile

There were 16,984 anglers 18 years of age and over in Prince Edward Island in 1980. Of these, 15,446 were residents of the province and the remainder were nonresidents. Of the 1,538 nonresidents who purchased licences, 94% of them fished. 76% of the nonresident anglers who responded were Canadians, mainly from Ontario; most of the remaining nonresident anglers were from the New England states.

The accommodation most frequently used, by anglers visiting Prince Edward Island, was staying with friends and relatives. This was true for both fishing and non-fishing trips. Tents, trailers and other commercial lodging were equally popular accommodations on all trips to Prince Edward Island, but for fishing trips alone, tents or trailers were used more often.

Fishing Effort

Anglers fished a total of over 314,000 days in 1980, or 18 days per angler. Resident anglers fished an average of 19 days, while nonresidents fished only 7 days on average.

By far the majority of fishing effort was expended in freshwater. Resident anglers spent 74% of their angler days fishing in freshwater while nonresidents expended 81% of their effort there.

Most fishing occurred during the summer period April through September. During that time, 94% of resident, and 100% of nonresident fishing effort was expended.

Harvest

In 1980, anglers caught an estimated 1.8 million fish of all reported species and retained 0.9 million of these which weighed an estimated 250,000 kilograms. Brook trout, sea trout (trout frequenting salt water) and eel, in that order, comprised 81% of the harvest by number. Resident anglers caught 96% of the fish harvested.

Anglers in Prince Edward Island kept slightly more than 53 fish each, of which 31 were brook trout, 7 were sea trout and 5 were eels. Both residents and nonresidents preferred brook trout, sea trout and rainbow trout respectively. However, residents retained, in order of quantity, brook trout, sea trout and eels and nonresidents retained brook trout, mackerel and sea trout.

Angler Satisfaction

Nonresidents made 3,814 trips to Prince Edward Island and on 57%, or 2,168, of these trips, they participated in the sportfishery. Fishing was the main reason for 27% of the trips made by nonresidents and the secondary reason for 56% of the trips.

Nonresident anglers tended to have a positive view of fishing in Prince Edward Island. They gave good to excellent ratings in 65% of the cases, whereas, a poor rating was given in only 16% of the cases. Close to 1,400 anglers or 90% of all nonresident anglers indicated they intended to fish in Prince Edward Island in the future. If there had been no fishing opportunities in Prince Edward Island, 72% of nonresidents indicated they would substitute other activities while 9% indicated they would not come at all.

Expenditures and Investments

In 1980, anglers spent over $1.6 million in Prince Edward Island on activities directly associated with sportfishing. Residents spent a total of $1.3 million, which represents an average of $87 per angler. Nonresidents spent $276,000, an average of $179 per angler. The average expenditure for all active anglers was $96.

Anglers invested close to $1.6 million on major durables and property, of which 45%, or almost $.8 million, was attributed to sportfishing activities. The majority of these investments were made by residents. The average investment by residents was $104 and $48 by nonresidents.

Without regard to year of purchase, the 1980 market value of the 6,500 boats owned by residents was reported as $5.7 million. Outboards were most popular followed by canoes. Outboards accounted for 78% of the market value of all boats and were used for 53% of all boat-days of fishing.

INTRODUCTION

In 1980, a survey of sportfishing in Prince Edward Island was conducted to provide basic information, on the importance of this fishery to the public, anglers, and the sportfishing industry as well as to fisheries management agencies. The survey was conducted by the Prince Edward Island Fish and Wildlife Division, of the Department of the Environment (now Community and Cultural Affairs) in co-operation with the Economic Policy Branch (now the Commercial and Economic Analysis Division) of the Department of Fisheries and Oceans of Canada.

The 1980 survey was the second in a series which are carried out at five year intervals. Both surveys were part of a nationally-coordinated study conducted by all of Canada's provincial and territorial sport fisheries agencies and several regional offices of the federal Department of Fisheries and Oceans. Thus not only does this report provide a basic understanding of the provincial sport fishery in 1980, it also makes an important contribution to an understanding of the national sport fishery.

SURVEY BACKGROUND

In 1970, representatives of Canadian fisheries agencies started to meet on a regular basis to discuss matters of common concern. At these meetings, now termed the Canadian Sport Fisheries Conferences, there has been continuing agreement that effective management requires a framework of basic information regarding the size, value, socio-economic performance and potential of Canada's sport fisheries. The size of this task was realized from the outset; no comprehensive information existed and partial coverage from the only previous survey, conducted in 1961, indicated that millions of Canadians and hundreds of millions of dollars were involved.

It was also realized that the development and publication of sportfishing data were required on a regular basis, and that all sport fisheries agencies must work together to provide such information. Plans

made at the 1972 and 1974 conferences were implemented in January 1976 when thirteen provincial, territorial and federal sport fisheries agencies launched the first nationally-coordinated set of surveys. Some 50,000 questionnaires which asked anglers about their fishing activities for the calender year 1975 were mailed. The response was gratifying: 60% of the surveyed anglers from across Canada provided information for survey publications.

The success of the 1975 survey led to the development of the 1980 study. They were successful in two important ways. First, they provided Canadians with the first authoritative data on the magnitude and importance of Canada's sport fisheries. Second, they demonstrated that, despite regional differences, consistent and comparable data can be generated from a common group of questions. Due to changes in the survey methodology for the survey of resident anglers, the 1980 results cannot be compared to those found in 1975 at the provincial level.

A total of 1,986 questionnaires were sent to residents of Prince Edward Island in order to obtain a sample of resident anglers who fished in 1980. A total of 878 (44%) questionnaires were completed and returned to provide the basis for the information given in this report. After extrapolating information from these returns, an overall description of sportfishing in the province was developed. Additional information regarding methodology is contained in Appendix A. The questionnaires used in the 1980 survey are reproduced in Appendix B.

ANGLER PROFILE

Numbers

There was a total of 16,984 anglers in Prince Edward Island in 1980 (Table 1). Of the 1,538 nonresident licence holders, an estimated 9% did not fish.

A total of 15,446 Prince Edward Island residents, or 21% of the province's population over 19 years of age, were active anglers in 1980. The total number of Prince Edward Island residents of all ages who were active anglers in 1980 was 23,646 or 20% of the province's population. Slightly over three quarters of the resident anglers were male. Approximately 35% of all resident anglers were under 18 years of age.

TABLE 1 Number and characteristics of anglers who fished in P.E.I. in 1980.

Characteristic	Resident of Province	Nonresident	Total
Angler population	15,446	1,538	16,984
Estimated nonactive anglers	n/a	96	96
Estimated active anglers	15,446	1,441	16,887
Males	11,721	1,345	13,066
Average age	39	44	
Females	3,725	96	3,821
Average age	36	42	
Estimated anglers under 18 years of age	8,200	378	8,578
Total estimated active anglers of all ages	23,646	1,819	25,465

Origins

Of the estimated 25,465 active anglers of all ages, almost 93% were Prince Edward Island residents, and the remainder were nonresidents.

The origins of the resident anglers were relatively evenly distributed between the areas of Hillsborough, Malpeque, Egmont and Cardigan (Table 2). Of the total number of resident anglers in 1980, nearly 23% lived in the Hillsborough area; 24.5% were from Egmont; 25.6% from Cardigan; and, 27% from the Malpeque area.

TABLE 2. Number of resident anglers and their place of residence within Prince Edward Island, 1980

By District	Number	Percentage
Hillsborough	3,540	22.9
Malpeque	4,173	27.0
Egmont	3,777	24.5
Cardigan	3,956	25.6
TOTAL	**15,446**	**100.0**

Nearly 1,200 Canadians from other provinces fished in Prince Edward Island in 1980 (Table 3). The majority, or 42%, of these came from Ontario, 24% from New Brunswick, 23% from Nova Scotia and 11% from Quebec and Alberta.

Nearly 400 United States residents fished in Prince Edward Island in 1980 and nearly 70% of these came from the New England area (Table 3). An additional 17% came from the Mid-Atlantic states and 5% from both the East North Central and South Atlantic states. There was a decrease of 40%, in the number of non-Canadian anglers, from 1975.

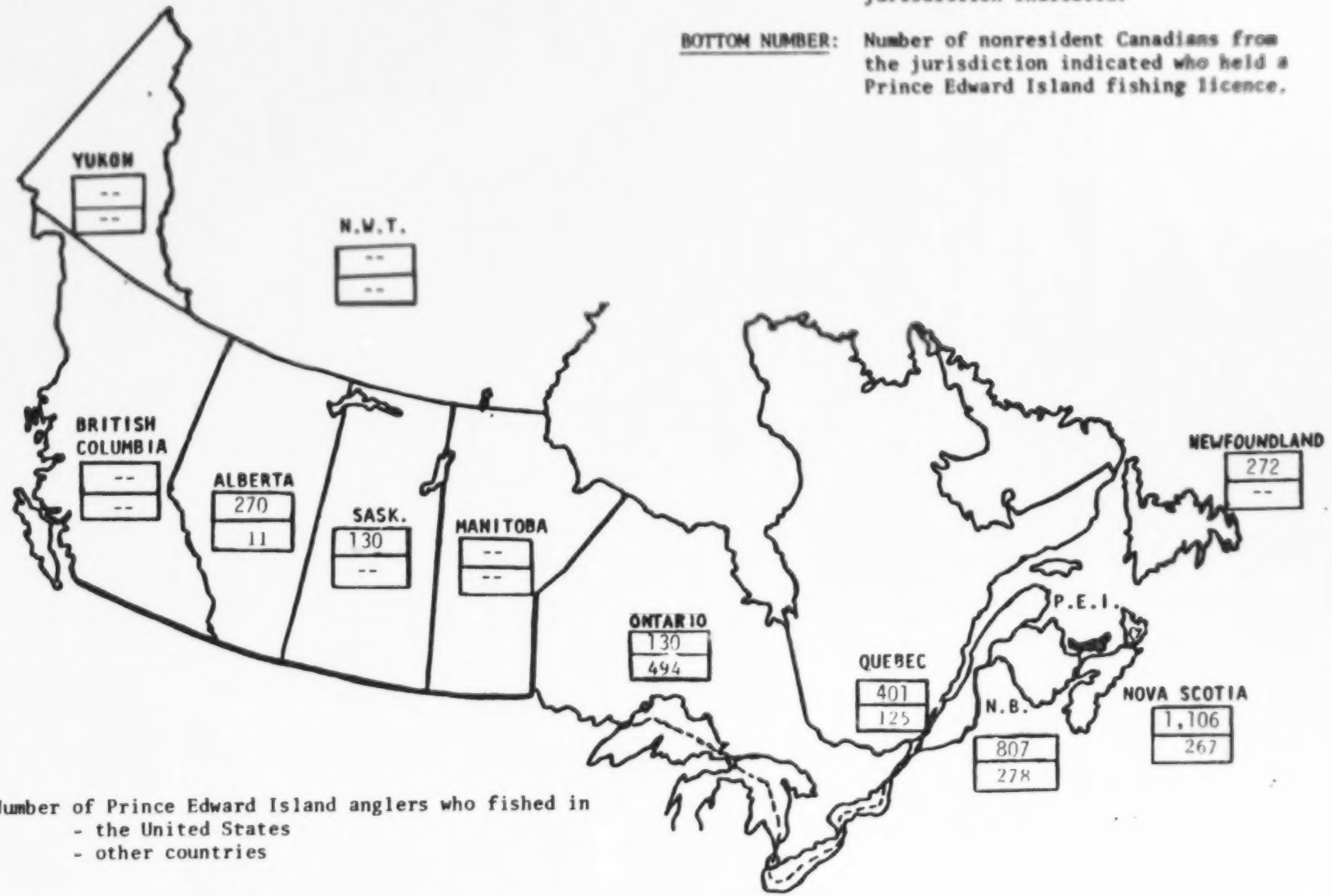
TABLE 3. Origin and number of nonresident anglers who held a Prince Edward Island fishing licence in 1980.

Province/State Group	Number	Percentage
Canadian (see fig. 1)		
Nova Scotia	267	17.4
New Brunswick	278	18.1
Quebec	125	8.1
Ontario	494	32.1
Alberta	11	0.7
Total	1,175	76.4
Non-Canadian (see fig. 2)		
New England	250	16.3
Mid-Atlantic	62	4.0
East North Central	17	1.1
West North Central	11	0.7
South Atlantic	17	1.1
West South Central	6	0.4
Total	363	23.6
TOTAL	**1,538**	**100.0**

FIGURE 1: Numbers of Prince Edward Island residents fishing elsewhere in Canada and nonresident Canadians fishing in Prince Edward Island, 1980.

TOP NUMBER: Number of Prince Edward Island residents who fished at least one day in the jurisdiction indicated.

BOTTOM NUMBER: Number of nonresident Canadians from the jurisdiction indicated who held a Prince Edward Island fishing licence.



Number of Prince Edward Island anglers who fished in
- the United States
- other countries

FIGURE 2: Regional distribution and numbers of residents of the United States holding angling licenses in Prince Edward Island, 1980.

TABLE 4. Historical angling participation in Prince Edward Island.

Year	Resident	Nonresident	Total
Angler population 1980	15,446[1]	1,538	16,984
No. who fished in 1980	15,446	1,441	16,887
No. of anglers who fished in 1979	17,880	692	18,572
No. of anglers who fished in 1978	16,240	641	17,061
No. of 1980 anglers who fished in 1977	14,290	562	14,852
No. of anglers who fished in 1976	13,560	545	14,105
No. of anglers who fished in 1975	14,350	516	14,866

[1]Participation is based on only these anglers who held licences in 1980.

Motivations

The tradition for fishing in Prince Edward Island is strong (Table 4): in 1980 it was found that 93% of all resident anglers had also fished in 1975, and there was a steady increase in the number of anglers until it dropped by about 15% in 1980. In 1978 and 1979 there were more resident anglers than 1980. For the majority of nonresident anglers 1980 was their first visit in at least 5 years to Prince Edward Island. Many may have had their first fishing experience on the Island in 1980 since only 33.6% had fished in 1975, and 50% of them had fished in 1979.

More than one quarter of the nonresident anglers reported that sportfishing was the primary reason for their travel to Prince Edward Island (Table 5). A majority of 56% reported angling as the secondary reason for their trip and the remaining 17% indicated that their angling was decided after their arrival.

Nonresident anglers fished on over half of their trips to the Island (Table 6) with 40% of all days spent fishing. About 89% of nonresident anglers indicated they planned to return to Prince Edward Island to fish (Table 7) and only 9% indicated they would not come back if sportfishing was no longer available (Table 8). However, 72% of nonresidents indicated they would return to Prince Edward Island and would substitute other activities if there were no sportfishing opportunities. About 65% of nonresident anglers rated the fishing they had experienced as good to excellent (Table 9).

Nonresidents tended to stay with friends and relatives or in tents and trailers while sportfishing (Table 10). Only a small proportion of them stayed at fishing lodges or camps however, 25% used other types of commercial lodging.

The response to these questions indicate that sportfishing is an important element of nonresidents' trips to the Island. However, there are clearly other reasons for visiting the province - notably, to see friends and relatives as well as to take part in other activities.

TABLE 5. Fishing trip motivation for nonresident anglers in Prince Edward Island in 1980.

Motiviation	Percentage
Main reason	27.1
Secondary reason	56.1
Decided upon after arrival	16.8
TOTAL	**100.0**

TABLE 6. Nonresident trip activity in Prince Edward Island in 1980.

Characteristics	Number	Average
Trips made all purposes	3,814	2.5
Trips made fishing	2,168	1.4
Trips fished as % of all trips	56.8	
Days spent all purposes	25,200	16.4
Days fishing	10,100	6.5
Days fished as % of all days	40.1	

TABLE 7. Projected future participation of nonresident anglers in Prince Edward Island.

Future fishing in Prince Edward Island	Number	% of Total
Yes	1,367	89.0
No	171	11.0
TOTAL	**1,538**	**100.0**

TABLE 8. Nonresident visit alternatives if there had been no fishing opportunities in Prince Edward Island in 1980.

Alternative	Number	% of Total
Stayed a shorter time	293	19.0
Substitute other activities	1,108	72.0
Not come at all	137	9.0
TOTAL	**1,538**	**100.0**

TABLE 9. Nonresident views of their fishing experiences in P.E.I.

Ratings	Number	% of Total
Excellent	215	14.0
Very Good	365	23.7
Good	417	27.1
Fair	296	19.2
Poor	245	16.0
TOTAL	**1,538**	**100.0**

TABLE 10. Type of accommodation used by nonresident anglers in Prince Edward Island in 1984.

Accommodation	Trips Fished	Trips Not Fished
Friends & relatives	44.9	21.7
Tent or trailer	29.7	4.9
Fishing lodge or camp	1.5	0.4
Other commericial lodging	27.8	9.9
Other	6.5	2.3

ANGLER FISHING EFFORT AND HARVEST

Fishing Effort

Anglers fished an estimated 314,000 days in Prince Edward Island in 1980 (Table 11), this was up from the 295,232 days reported for 1975. In all, about 95% of the angling took place during the six month period April through September. May was the most popular month for residents and July for nonresidents. Residents, who accounted for 97% of all angling activity, fished an average of 20 days, whereas nonresidents averaged 7 days. No estimate of effort could be made for anglers under 18 years of age. The fishing effort by quarter is presented in Table 12.

Fishing Areas

The freshwater fishery continued to be the prime attraction for both resident and nonresident anglers with 74% of resident and 81% of nonresident angling effort taking place in freshwater (Table 11). Residents' smelt fishing activities probably contributed heavily to the January through April saltwater fishing effort (Table 11 and 12).

Just over 50 % of the resident effort was expended in the populated areas around Charlottetown and along the Central North Coast (Figure 3). In contrast, nonresidents tended to fish in the eastern part of the Island, where 50% of their overall effort occurred.

In general, resident anglers fished only in Prince Edward Island. They also fished 130 days at Fundy National Park but did not expend any effort in other national parks or on the Great Lakes (Table 13). Fundy National Park was also popular among nonresidents. They fished 165 days there and they also frequented Kejimkujik National Park where they fished 108 days.

TABLE 11. Number of angler-days in each month in freshwater and saltwater, Prince Edward Island in 1980 ('000 days).

Month	Resident		Nonresident		Total	
	Fresh	Salt	Fresh	Salt	Fresh	Salt
January	0.5	4.2	0	0	0.5	4.2
February	0.8	4.2	0	0	0.8	4.2
March	0	1.0	0	0	0	1.0
April	32.0	8.9	0.2	0	32.2	8.9
May	50.2	16.5	0.8	0.2	51.0	16.7
June	44.2	11.1	1.2	0.3	45.4	11.4
July	38.9	11.0	3.0	0.5	41.9	11.5
August	34.2	9.1	2.4	0.7	36.6	9.8
September	19.5	10.9	0.6	0.2	20.1	11.1
October	3.5	1.6	0	0	3.5	1.6
November	0	0.7	0	0	0	0.7
December	0.6	0.3	0	0	0.6	0.3
ANNUAL TOTAL	**224.4**	**79.5**	**8.2**	**1.9**	**232.6**	**81.4**
TOTAL FRESH AND SALT	**303.9**		**10.1**		**314.0**	
Average/angler	19.7		7.0		18.6	

FIGURE 3: Percentage of angler days expended by anglers in each area of Prince Edward Island, 1980

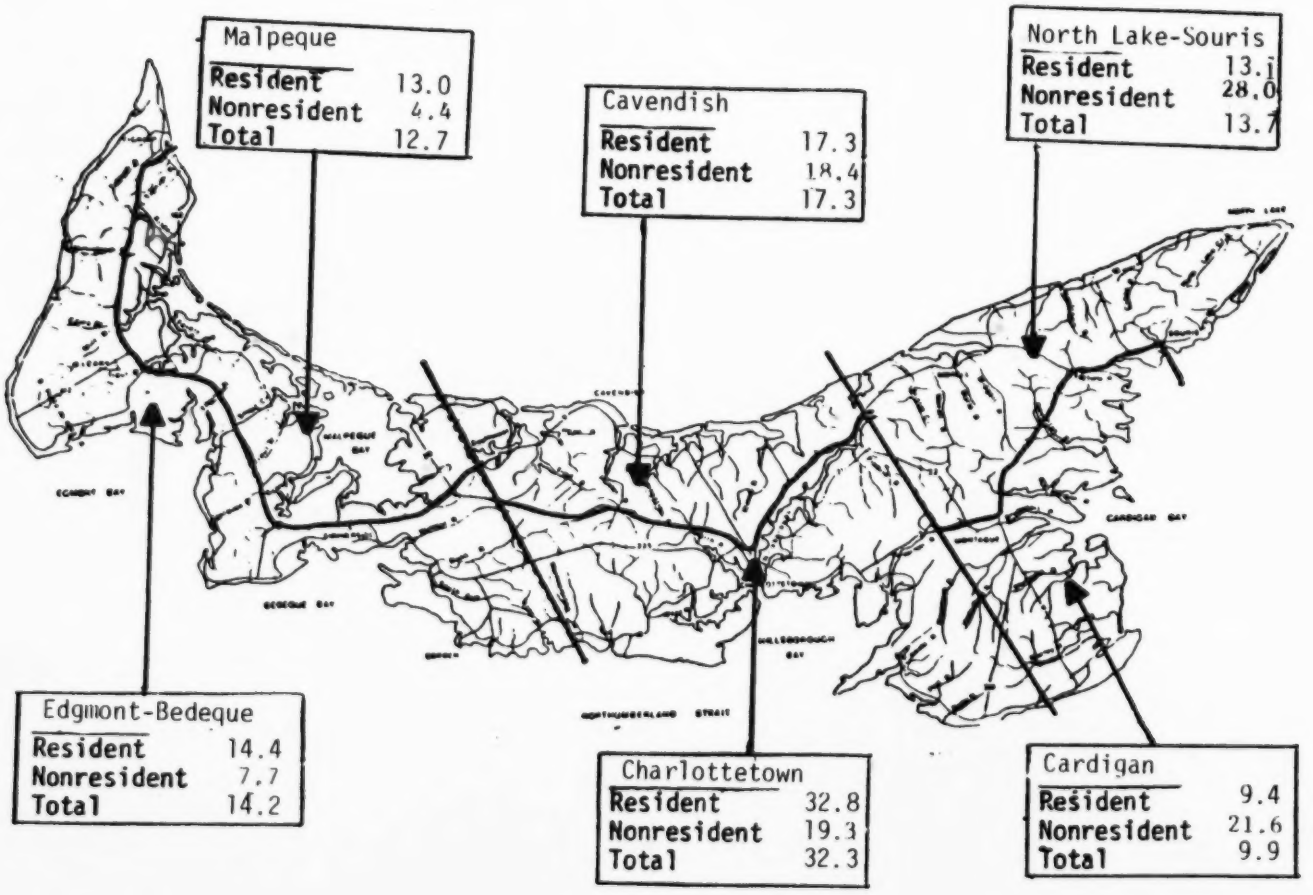


TABLE 12. Quarterly fishing effort in Prince Edward Island in 1980 ('000 days).

Quarter	Resident		Nonresident		Total	
	Fresh	Salt	Fresh	Salt	Fresh	Salt
1st Quarter	1.3	9.4	-	-	1.3	9.4
%	0.6	11.8	-	-	0.6	11.5
2nd Quarter	126.4	36.5	2.2	0.5	128.6	37.0
%	56.3	45.9	27.0	26.3	55.3	45.5
3rd Quarter	92.6	31.0	6.0	1.4	98.6	32.4
%	41.3	39.0	73.2	73.7	42.4	39.8
4th Quarter	4.1	2.6	-	-	4.1	2.6
%	1.8	3.3	-	-	1.8	3.2

TABLE 13. Number of angler-days expended in National Parks by anglers who fished in P.E.I. in 1980

National Park Name	Days Fished		Total
	Resident	Nonresident	
Fundy	130	165	295
Cape Breton Highland	-	6	6
Georgian Bay Islands	-	11	11
Kejimkujik	-	108	108
La Maurice	-	28	28
Terra Nova	-	23	23
TOTAL	130	341	471

Harvest

In 1980, anglers in Prince Edward Island caught an estimated 1.2 million fish of all reported species of which they retained 900,800 (Table 14). Prince Edward Island anglers kept over 76% of their catches, whereas nonresidents kept 66%.

The total harvest of fish in Prince Edward Island is considerably greater than the 900,800 indicated because it does not include fish taken by anglers under 18 years of age. Underage anglers comprise one third of the estimated total anglers and their catches would substantially increase the total harvest. There is, however, no way of estimating this harvest from available data.

Brook trout, sea trout and eels, in that order, comprised 80% of the harvest (Table 14). Resident anglers caught 95% of the total catch. There were increased harvests of eels and Atlantic salmon over 1975 but this did not compensate for the decreased harvests of species such as white perch and mackerel.

In 1980, the average catch per angler-day for all species was 2.8 fish by residents and 3.7 fish for nonresidents (Table 15). There was considerable variation within these averages per angler-day. For example, nonresidents caught five times more cod and three times more mackerel than residents, whereas, residents caught .26 eels per angler-day and nonresidents fished virtually no eels.

On average, each angler over 18 years of age caught and retained 53 fish in 1980 (Table 16). Each resident kept 56 fish while nonresidents kept only 26.

TABLE 14. Number of fish caught and retained by anglers in Prince Edward Island in 1980 ('000).

Species	Resident		Nonresident		Total	
	Caught	Kept	Caught	Kept	Caught	Kept
Brook trout	681.3	507.1	36.4	24.2	717.7	531.3
Sea trout	118.5	107.6	3.6	2.7	122.1	110.3
Eel	79.8	79.0	0.1	0.1	79.9	79.1
Mackerel	59.2	45.4	6.9	4.5	66.1	49.9
Rainbow trout	44.8	23.3	1.8	1.5	46.6	24.8
Cod	21.4	11.7	3.9	1.9	25.3	13.6
Atlantic salmon	0.5	0.3	0.2	--	0.7	0.3
White perch	10.1	--	0.9	0.2	11.0	0.2
Tuna	0.1	0.1	--	--	0.1	0.1
Other	110.0	89.2	2.5	2.0	112.5	91.2
TOTAL	**1,125.7**	**863.7**	**56.3**	**37.1**	**1,182.0**	**900.8**

TABLE 15. The average number of fish caught and retained per angler-day in Prince Edward Island in 1980.

	Resident	Nonresident	Total
Brook trout	1.67	2.4	1.7
Sea trout	.35	.27	.35
Eel	.26	*	.25
Mackerel	.15	.45	.16
Rainbow trout	.08	.15	.08
Cod	.04	.19	.04
Atlantic salmon	*	--	*
White perch	--	.02	*
Tuna	*	--	*
Other	.29	.20	.29
TOTAL	**2.84**	**3.68**	**2.87**

* less than .01 fish per angler.

TABLE 16. The average numbers of fish caught and retained by anglers in Prince Edward Island in 1980.

Species	Resident		Nonresident		Totals	
	Caught	Kept	Caught	Kept	Caught	Kept
Brook trout	44	33	25	17	42	31
Sea trout	8	7	2	2	7	6
Eel	5	5	*	*	5	5
Mackerel	4	3	5	3	4	3
Rainbow trout	3	1	1	1	3	2
Cod	1	1	3	1	2	1
Atlantic salmon	*	*	*	-	*	*
White perch	1	-	1	*	1	*
Tuna	*	*	-	-	*	*
Other	7	6	2	2	7	5
TOTAL	**73**	**56**	**39**	**26**	**71**	**53**

* Less than .5 fish per angler

Preferences

Brook trout and sea trout were most preferred by all anglers in Prince Edward Island in 1980 (Table 17). Rainbow trout were third in importance for both resident and nonresident anglers. Residents retained the fish they most preferred, being brook trout and sea trout. Nonresidents also preferred brook trout and sea trout but retained mostly brook trout and mackerel.

Consumption

In 1980, anglers kept about 249,832 kilograms of fish (Table 18). Anglers indicated that they ate over 153,674 kilograms of the fish they caught. About 81% of the catch was consumed by the anglers' households, about 13% was given to others and 6% was used for other purposes.

TABLE 17. Species preferred by anglers in Prince Edward Island in 1980.

Preference	Resident	Nonresident
1.	Brook trout	Brook trout
2.	Sea trout	Sea trout
3.	Mackerel	Mackerel
4.	Rainbow trout	Rainbow trout
5.	Trout (general)	Trout (general)
6.	Atlantic salmon	Atlantic salmon
7.	Cod	Cod
8.	Smelt	Tuna

TABLE 18. Disposition of fish caught by anglers in Prince Edward Island in 1980

	Resident	Nonresident	Total
Weight of fish - lbs	526,600	24,185	550,785
- kg	238,862	10,970	249,832
% eaten	80.5	65.3	80.7
% given away	13.5	14.1	13.5
% other uses	6.0	0.6	5.8
Fish weight eaten - lbs	323,000	15,794	338,794
- kg	146,510	7,164	153,674

ANGLER EXPENDITURES AND INVESTMENTS

Expenditures

Anglers spent $1.6 million on activities directly associated with sportfishing in Prince Edward Island in 1980 (Table 19). Resident anglers spent $1.3 million or $87 per angler; nonresident Canadians spent $.4 million within the province, or $100 per angler. Overall, anglers spent 40% more for sportfishing in Prince Edward Island in 1980 than in 1975. Average expenditures per angler increased 15% to $96. Expenditures by resident anglers were 70% greater and nonresident expenditures were down by 14% from 1975.

TABLE 19. Direct expenditures by anglers in Prince Edward Island in 1980 ($'000).

Expenditure Category	Resident	Nonresident	Total
Package	26.1	10.2	33.3
Lodging	4.1	42.2	46.3
Campsite Fees	2.0	19.4	21.4
Food	166.4	107.6	274.0
Travel Costs	451.4	58.2	509.6
Boat Rentals	46.6	4.3	50.9
Fishing Supplies	454.0	13.6	467.6
Bait	24.9	0.7	25.6
Household boat costs	119.0	2.2	121.2
Guide services	--	1.2	1.2
Fishing licences	47.8	11.2	59.0
Other	8.6	5.2	13.8
TOTAL	**1,350.9**	**276.0**	**1,623.9**
Average/angler	$87.46	$179.45	$95.61

Costs of fishing supplies and travel accounted for more than two thirds of the annual expenditures by resident anglers (Table 20). Nonresident expenses consisted mainly of food and travel costs. Charter boats were most popular among "package trips" comprising 58% of the total costs (Table 21). Resident anglers utilized package trips more than nonresidents, spending $26,140, or 72% of the total.

TABLE 20. Distribution of direct expenditures by anglers in Prince Edward Island in 1980

Expenditure Category	Resident	Nonresident	Total
Package	2.0	3.7	2.1
Lodging	0.3	15.3	2.8
Campsite fees	0.1	7.0	1.3
Food	12.3	39.0	16.9
Travel costs	33.4	21.1	31.4
Boat rentals	3.5	1.6	3.1
Fishing supplies	33.6	4.9	28.8
Bait	1.8	0.3	1.6
Household boat costs	8.9	0.8	7.5
Guide services	--	0.4	0.1
Fishing licences	3.5	4.0	3.6
Other	0.6	1.9	0.8
TOTAL	**100.0**	**100.0**	**100.0**

TABLE 21. Household expenditures for package trips to Prince Edward Island in 1980.

Type	Residents $	Nonresident $	Total $
Fly-in	5,920	4,000	9,920
Charter boat	18,260	2,700	20,960
Fishing package	1,960	3,500	5,460
TOTAL	**26,140**	**10,200**	**36,340**

Investments

Anglers invested $1.6 million in 1980 on major durables and property used in whole or in part for sportfishing (Table 22). Almost all of the major purchases were made by residents, with boating equipment and fishing gear comprising 99% of their investments. Nonresidents invested 91% of their money for cottages, land and boating equipment (Table 23).

TABLE 22. Major angler purchases and investments attributable in whole or in part to angling within Prince Edward Island in 1980 ($'000).

Expenditure Category	Resident	Nonresident	Total
Fishing gear	75.6	4.7	80.3
Boats, motors and related equipment	1,506.5	24.8	1,531.3
Campers and related equipment	22.8	1.3	24.1
Cottages and land	--	37.8	37.8
Other items	--	0.1	0.1
TOTAL	**1,604.9**	**68.7**	**1,673.6**
Total invested in fishing	747.3	14.9	762.2
Average/angler	$104	$48	$99

TABLE 23. Distribution of major angler purchases and investments attributable in whole or in part to angling within Prince Edward Island in 1980.

Expenditure Category	Resident %	Nonresident %	Total %
Fishing gear	4.7	6.8	4.8
Boats, motors and related equipment	93.8	36.1	91.5
Campers and related equipment	1.5	1.9	1.4
Cottages and land	--	55.0	2.2
Other items	--	0.2	0.1
TOTAL	**100.0**	**100.0**	**100.0**

Boat Ownership and Use

Resident anglers owned 6,500 boats in 1980 with a market value of $5.7 million (Table 24). One-third of these boats were outboards, which were used nearly half of the time for fishing (Table 25). There were 3,900 more boats in Prince Edward Island in 1980 than in 1975.

TABLE 24. Resident angler boat ownership information, Prince Edward Island, 1980.

Boat Type	Number ('000)	Market Value ($'000)	Average Value ($)
Canoe	1.7	583.6	340
Rowboat	1.5	312.4	210
Outboard	2.2	4,488.4	2040
Sailboat	0.3	212.2	710
Other	0.8	122.7	150
TOTAL	**6.5**	**5,719.3**	**880**

TABLE 25. Use of boats by resident anglers in Prince Edward Island in 1980

Boat Type	Days All Recreation ('000)	Days Fishing Fresh ('000)	Days Fishing Salt ('000)	Fishing as % of Recreation
Canoe	40.8	10.9	1.7	30.9
Rowboat	19.6	10.1	--	51.5
Outboard	74.7	27.5	6.4	45.4
Sailboat	4.7	0.2	--	4.3
Other	7.3	3.7	3.3	95.9
TOTAL	**147.1**	**52.4**	**11.4**	**43.4**

SUMMARY

The results of the 1980 survey of sportfishing in Prince Edward Island confirms that it is an important economic component of the natural resource sector in the province. Four measures of that component are reported herein. First, it is estimated that anglers spent $1.6 million on activities directly associated with fishing. These monies were spent on accommodation, food, travel, bait, licences, etc. Second, anglers invested $1.6 million on major durables and property of which $.8 million was used for sportfishing. In all, anglers invested over $3.2 million in 1980, of which $2.4 million was wholly attributable to sportfishing within Prince Edward Island. In most other reports on sportfishing, both annual expenditures and angler investments are lumped together and called "gross" expenditures. The two are separated herein so the importance of each within the economy can be better understood and assessed.

The results of the 1980 survey of sportfishing in Prince Edward Island indicates that it is an important and economic resource use within the province. Four measures of importance have been reported herein. First, it is estimated that anglers spent $1.6 million on activities directly associated with fishing. These monies were spent on accommodation, food, travel, bait, etc.

Secondly, anglers invested $1.6 million on major durable purchases and property of which $.8 million was used for sportfishing. In total, then, $2.4 million was wholly attributable to sportfishing within Prince Edward Island in 1980. If economic multipliers are applied to this amount, then it is estimated that the total economic impact of these expenditures is approximately $3.6 million.

The third measure, boat ownership and use, sheds further light on angler investments. Resident anglers reported they owned 6,500 boats with a market value of $5.7 million. Since these boats were used 43% of the time for sportfishing, $2.5 million can be 'allocated' to sportfishing in 1980.

The fourth measure concerns the fishing effort and harvest. Overall, there have been significant changes in angling activities within Prince Edward Island since 1975. The total number of anglers increased 21% to 16,984 and the number who fished was about 4,800 more than in 1976. The number of angler-days increased by 8% to 314,100. The total harvest of fish decreased slightly to .9 million fish - primarily because of decreased catches of smelt and mackerel.

Economists generally agree that the first round of expenditures in most segments of the business world do not adequately reflect the full impact of spending such as described above. As the money circulates into associated businesses, the economic effect increases by a factor of 1.5 or greater. On this basis, the direct economic impact of sportfishing within the Prince Edward Island economy was about $3.6 million in 1980.

APPENDIX A

METHODOLOGY

METHODOLOGY

The 1980 survey of sportfishing was the second survey carried out by the Fish and Wildlife Division of the P.E.I. Department of the Environment (now Community and Cultural Affairs) in conjunction with the Federal Department of Fisheries and Oceans. The survey formed part of the quinquenniel surveys of sportfishing in Canada which began in 1975 and covered all jurisdictions in Canada. Due to the varying nature of licensing regulations across Canada, the methodology used was developed on the basis of regulations in the jurisdiction under study. The purpose of this section is to describe the approach used in Prince Edward Island.

I. SAMPLING METHODOLOGY

Two sampling procedures were used to obtain the names of prospective respondents for the Prince Edward Island surveys.

Although residents of the province are required to purchase a licence there are a number of exempted groups such as farmers, fishermen, etc. Consequently, in order to estimate the population of all anglers in the province, a suitable frame covering all resident adults had to be used. The frame decided upon was the provincial electoral lists compiled for the 1980 federal election. Permission was obtained from the Chief Electoral Officer and a systematic, one percent sample was drawn from each of the seven electoral districts. For nonresidents, the licensing files were stratified by licence-type. Within each stratun, a systematic sample of 23% of all licence holders was selected. The two procedures resulted in a sample of 1,986 prospective respondents.

II. MAILING

All mailing operations were handled by the staff of the Fish and Wildlife Division, Charlottetown. Questionnaires, covering letters and postage-paid return envelopes were mailed during the second

week of January, 1981. Two follow-up mailings to nonrespondents were conducted after six and twelve weeks from the original mailing. Questionnaires returned by April 30, 1981 were used in the analysis of the survey. The useable return rate from three mailings for both resident and nonresident anglers was 44%.

III. CODING, EDITING AND DATA CAPTURE

These operations were conducted by staff hired by the Department of Fisheries and Oceans in Ottawa. Particular emphasis was placed on the quality of the information received and the degree of substitution found. Any questionnaires which were inconsistent, incomplete or answered by someone other than the person named on the questionnaire were discarded as unuseable. Questionnaires were key-punched and verified by staff and Dominion Computer Support Services.

IV. DATA PROCESSING AND ESTIMATION PROCEDURES

All data processing was performed by staff and the Surveys Unit, Department of Fisheries and Oceans, Ottawa. There were a number of distinct procedures used to derive the estimates contained in this report and each is described below. Where necessary, cautionary notes concerning use of specific data are included. All data processing was performed using Statistical Package for the Social Sciences (SPSS) Version 9.0.

A. Editing and Updating

After receipt of the tape containing the raw data, an SPSS system file was created. These data were then edited to assess keypunch errors, inconsistencies and improper coding. All errors were corrected and a new file created.

Included in the update procedure was the creation of aggregated data on each questionnaire in order to provide estimates of activity patterns, sub-provincial estimates and totals as requested by the province.

B. Weighting

Two weighing procedures were used to develop estimates for this report.

First, all estimates for angler profiles, activity, harvest, preferences and other angler-related data were produced by calculating a respondent weight in each stratum. The stratum weights were developed using an inverse proportional weighting procedure, that is, each stratum population was divided by the appropriate stratum sample. No adjustments were made for nonresponses. Although biases may be present, no significant differences were found when comparing the results of individual mailings on such variable as average effort and average expenditures.

Second, estimates of investment, direct expenditures, income and activity of unlicensed anglers were derived using household weights. These weights were calculated by dividing the respondent weights by the number of licensed anglers in the household. The number of licensed anglers was determined from responses given in the household profile question.

C. Treatment of Partial Responses

Where possible, stratum averages were used to adjust for partial responses in order to obtain population estimates. In the case of residents, substitution of cell averages was further based on their region of residence. Although it is recognized that some error may be incurred using this procedure, the number of cases requiring such substitution was less than 0.5%.

V. RELIABILITY

Although no estimates of reliability are provided in this report, coefficients of variation of the mean were calculated for such variables as angler effort, harvest and expenditures. At the provincial level, the coefficients calculated were less than 50% at one standard deviation indicating a high degree of reliability. Estimates at sub-provincial levels had higher coefficients of variation and judgement of their usefulness is left to the reader.

APPENDIX B

QUESTIONNAIRES USED IN 1980

PRINCE EDWARD ISLAND

Government of Canada / Gouvernement du Canada
Fisheries and Oceans / Pêches et Océans

SURVEY OF SPORT FISHING 1980

SECTION A

YOUR PERSONAL FISHING ACTIVITIES

1. Did you personally fish for sport in P.E.I. in 1980? (Include ice fishing)
   YES _____ NO _____ If no, please go to Question 8, page 4.

2. Would you please indicate the number of days you spent fishing in freshwater (F) or saltwater (S) each month in P.E.I. in 1980.

	F	S		F	S		F	S		F	S
Jan			Apr			July			Oct		
Feb			May			Aug			Nov		
Mar			June			Sept			Dec		

3. Did you catch any fish in P.E.I. in 1980?
   YES _____ NO _____

   If yes, please indicate below
   a) the number of each species you caught and kept in 1980 in P.E.I.
   Please add more species names as required.

Species	Number caught	Number kept	Species	Number caught	Number kept
Brook (speckled) trout			Atlantic salmon		
Rainbow trout			White perch		
Sea trout			Tuna		
Mackerel					
Cod					
Eel					

   b) please estimate the total weight of the fish you kept. _____ lbs.
   c) what percentage of the above was:
      eaten by your household _____ %
      given to others _____ %
      other _____ %

4. In how many of the Areas shown on the map on page 3 did you fish in 1980? _____

5. In the appropriate boxes alongside the map, please indicate the number of days you fished in each of the Areas in 1980.

6. If you caught and kept fish from more than one Area of the province in 1980, please use the boxes below to indicate your catch by species in each of the Areas you fished. If you fished in only one Area, please go to Question 7.

Area Number _____

Species	Number Caught	Number Kept

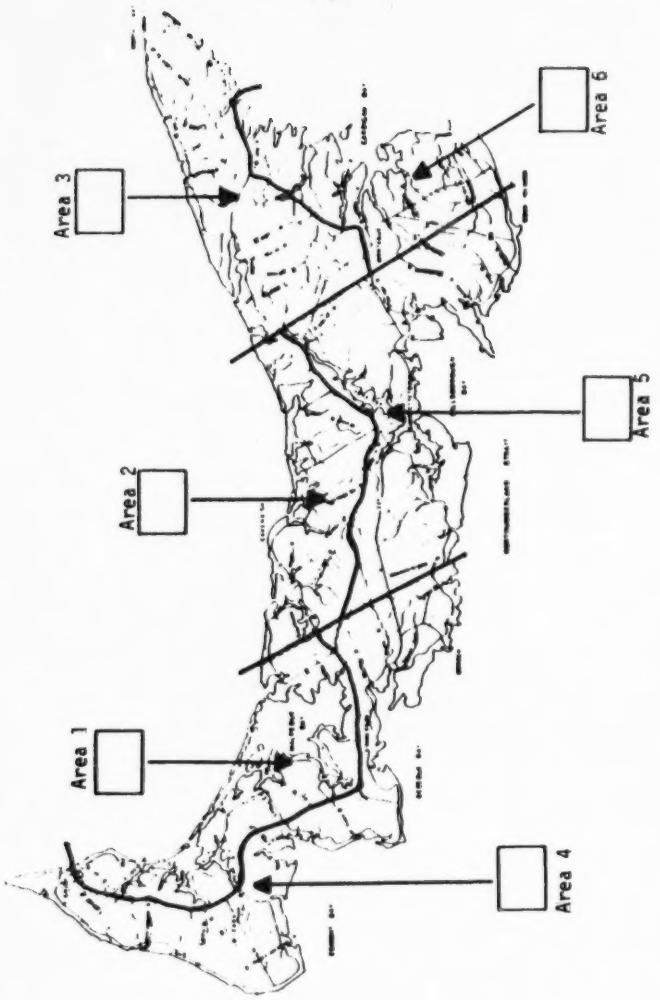
Area Number _____

Species	Number Caught	Number Kept

Area Number _____

Species	Number Caught	Number Kept

Question 6 is continued on page 4.



6. (Continued)

Area Number ____

Species	Number Caught	Number Kept

Area Number ____

Species	Number Caught	Number Kept

Area Number ____

Species	Number Caught	Number Kept

7. Of the species available in P.E.I., which do you prefer to catch?

FIRST _____ SECOND _____ THIRD _____

8. If you fished for sport in P.E.I. in any of the years listed below, please mark those years with an "x".

1975 ___ 1976 ___ 1977 ___ 1978 ___ 1979 ___

9. Did you fish for sport OUTSIDE P.E.I. in 1980?

YES _____ NO _____

If yes, please indicate below:

a) the name(s) of the province, territory, state or country where you fished, the days fished by type of water and the name of any particular species you were fishing for.

WHERE YOU FISHED	DAYS FISHED		PARTICULAR SPECIES FISHED FOR
	Fresh	Salt	

b) the name(s) of any National Parks in Canada or any of the Great Lakes (Superior, Huron, Ontario, etc.) where you fished and the number of days fished.

National Parks	Days Fished	Great Lakes	Days Fished

SECTION H

EXPENDITURES ON SPORTFISHING BY YOU AND/OR MEMBERS OF YOUR HOUSEHOLD

10. Did you and/or members of your household make any major purchases or investments in P.E.I. in 1980 for purposes relating in whole or part to sportfishing? (e.g. boats, recreational vehicles, tents, etc.)

YES _____ NO _____

If yes, please describe the items below:

Item purchased	Price	Percentage use for sportfishing
	$_____	_____ %
	$_____	_____ %
	$_____	_____ %

11. Did you and/or members of your household purchase in P.E.I. any "package" or so-called all-inclusive sportfishing trips, tours or outings in P.E.I. in 1980 (for example, fly-in fishing camps, going out on guide or charter boats, and so on, where the price includes transportation, plus a wide range of other facilities such as lodging, food, tackle, bait, etc.)?

YES _____ NO _____

If yes, please describe the "package(s)" below.

Type of Package	Number of Area Fished	For you and your household	
		Number of anglers	Cost to household

12. EXCLUDING major purchases, investments and package deal costs, please estimate below the amount of money you and/or members of your household spent for sportfishing purposes in P.E.I. in 1980:

1. Commercial lodging (hotel, motel, cabin, etc.) $ _____
2. Campsite fees _____
3. Food (restaurant, meals, groceries and beverages) _____
4. Travel costs within P.E.I. (by car, air, u-drives, etc.) _____
5. Boat rentals _____
6. Fishing supplies (rods, reels, tackle, special clothing, etc.) _____
7. Bait _____
8. Household owned boat costs (gas, repairs, moorage, etc.) _____
9. Guide services _____
10. Fishing licences, permits and access fees _____
11. Other (please specify) _____ _____

13. If you or members of your household fished in Canada outside P.E.I. in 1980, please estimate how much was spent elsewhere for sportfishing purposes in 1980:

In other parts of Canada $_____

SECTION C
HOUSEHOLD OWNERSHIP OF BOATS AND FISHING GEAR

14. How many boats are owned by your household which are used for recreational purposes?

_____ boats (If none, please go to Question 17).

15. Please provide the following information on your boats:
(type codes: 1. canoe, 2. rowboat, 3 outboard, 4. sailboat, 5. inboard-outboard, 6. inboard, 7. houseboat, 8. skiff, other)

Characteristic	Boat 1	Boat 2	Boat 3	Boat 4
Type (use code #)	_____	_____	_____	_____
Length (in feet)	_____ ft	_____ ft	_____ ft	_____ ft
Horsepower	_____ hp	_____ hp	_____ hp	_____ hp
Present market value	$_____	$_____	$_____	$_____
Number of days used for all recreation in P.E.I. in 1980 (including sportfishing)	_____	_____	_____	_____
Number of days used for sportfishing:				
in freshwater	_____	_____	_____	_____
in saltwater	_____	_____	_____	_____
Is the boat usually (✓):				
- kept moored	_	_	_	_
- transported by trailer	_	_	_	_
- carried by car-top	_	_	_	_

16. If any of your boats are usually kept moored, where do you moor your boats?

PLACE/HARBOUR

17. Excluding the above boat(s), please estimate as best you can the present market value of the sportfishing gear and equipment owned and used by you and members of your household solely for sportfishing.

Fishing tackle, gear, waders, etc.	$ _____
Other (please specify) _____	$ _____
_____	$ _____
_____	$ _____

SECTION D
HOUSEHOLD PROFILE

To help us analyse all the information provided, we would appreciate some information about you and your household. ALL ANSWERS ARE CONFIDENTIAL.

21. Person who completed the questionnaire:

Your age: _____ years
Your sex: Male _____ Female _____

22. Would you please provide the following information about other members of your household. (If no days were fished, please enter "0").

	Age	Sex		Number of days fished in P.E.I. in 1980	
		Male	Female	Freshwater	Saltwater
1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____

SECTION I
YOUR COMMENTS

You are invited to comment on your fishing experiences and fishing opportunities in P.E.I. (for example, quality, costs, access, environment, hospitality, services, regulations, problems, etc.)

YOUR COOPERATION AND ASSISTANCE ARE APPRECIATED

PRINCE EDWARD ISLAND

Government of Canada / Gouvernement du Canada
Fisheries and Oceans / Pêches et Océans

SURVEY OF SPORT FISHING 1980

NOTE: ALL QUESTIONS SHOULD BE ANSWERED BY THE PERSON NAMED ON THE ADDRESS LABEL

SECTION A
YOUR PERSONAL FISHING ACTIVITIES

1. Did you personally fish for sport on P.E.I. in 1980? (Include ice fishing)
   YES _____ NO _____ If no, please go to Question 8, page 4.

2. Would you please indicate the number of days you spent fishing in freshwater (F) or saltwater (S) each month in P.E.I. in 1980.

	F	S		F	S		F	S		F	S
Jan			Apr			July			Oct		
Feb			May			Aug			Nov		
Mar			June			Sept			Dec		

3. Did you catch any fish in P.E.I. in 1980?
   YES _____ NO _____

   If yes, please indicate below
   a) the number of each species you caught and kept in 1980 in P.E.I.
   Please add more species names as required.

Species	Number caught	Number kept	Species	Number caught	Number kept
Brook (speckled) trout			Atlantic salmon		
Rainbow trout			White perch		
Sea trout			Tuna		
Mackerel					
Cod					
Eel					

   b) please estimate the total weight of the fish you kept. _____ lbs.

   c) what percentage of the above was:

   eaten by your household _____%

   given to others _____%

   other _____%

4. In how many of the Areas shown on the map on page 3 did you fish in 1980? _____

5. In the appropriate boxes alongside the map, please indicate the number of days you fished in each of the Areas in 1980.

6. If you caught and kept fish from more than one Area of the province in 1980, please use the boxes below to indicate your catch by species in each of the Areas you fished. If you fished in only one Area, please go to Question 7.

Area Number _____

Species	Number Caught	Number Kept

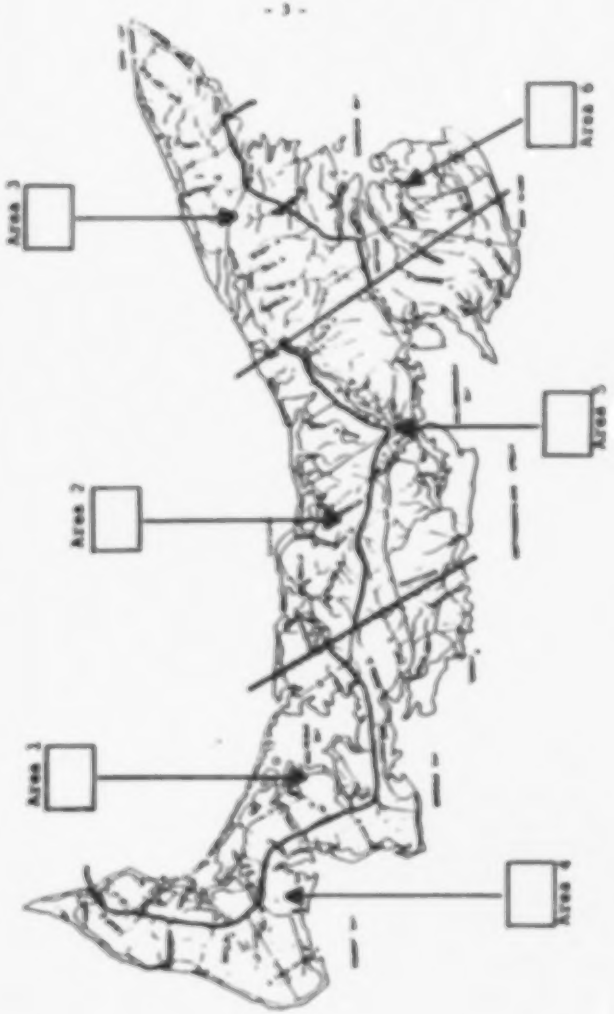
Area Number _____

Species	Number Caught	Number Kept

Area Number _____

Species	Number Caught	Number Kept

Question 6 is continued on page 4.



6. (Continued)

Area Number ____

Species	Number Caught	Number Kept

Area Number ____

Species	Number Caught	Number Kept

Area Number ____

Species	Number Caught	Number Kept

7. Of the species available in P.E.I., which do you prefer to catch?

FIRST _____ SECOND _____ THIRD _____

8. If you fished for sport in P.E.I. in any of the years listed below, please mark those years with an "x".

1975 ___ 1976 ___ 1977 ___ 1978 ___ 1979 ___

9. Did you fish for sport OUTSIDE P.E.I. in 1980?

YES _____ NO _____

If yes, please indicate below:

a) the name(s) of the province, territory, state or country where you fished, the days fished by type of water, and the name of any particular species you were fishing for.

WHERE YOU FISHED	DAYS FISHED		PARTICULAR SPECIES FISHED FOR
	Fresh	Salt	
_____	____	____	_____
_____	____	____	_____
_____	____	____	_____
_____	____	____	_____

b) the name(s) of any National Parks in Canada or any of the Great Lakes (Superior, Huron, Ontario, etc.) where you fished and the number of days fished.

National Parks	Days Fished	Great Lakes	Days Fished
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

NOTE: IF NO MEMBER OF YOUR HOUSEHOLD FISHED, PLEASE GO TO NEXT SECTION, PAGE 8.

SECTION D
EXPENDITURES ON SPORTFISHING BY YOU AND/OR MEMBERS OF YOUR HOUSEHOLD

10. Did you and/or members of your household make any major purchases or investments in P.E.I. in 1980 for purposes relating in whole or part to sportfishing? (e.g. boats, recreational vehicles, tents, etc.)

YES _____ NO _____

If yes, please describe the items below:

Item purchased	Price	Percentage use for sportfishing
_____	$_____	_____ %
_____	$_____	_____ %
_____	$_____	_____ %

11. Did you and/or members of your household purchase any "package" or so-called all-inclusive sportfishing trips, tours or outings in P.E.I. in 1980 (for example, fly-in fishing camps, going out on guide or charter boats, and so on, where the price includes transportation, plus a wide range of other facilities such as lodging, food, tackle, bait, etc.)?

YES _____ NO _____

If yes, please describe the "package(s)" below.

Type of Package	Number of Area Fished	For you and your household: Number of anglers	For you and your household: Cost to household
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

12. INCLUDING major purchases, investments and package deal costs, please estimate below the amount of money you and/or members of your household spent for sportfishing purposes in P.E.I. in 1980:

1. Commercial lodging (hotel, motel, cabin, etc.)	$ _____
2. Campsite fees	_____
3. Food (restaurant, meals, groceries and beverages)	_____
4. Travel costs within P.E.I. (by car, air, u-drives, etc.)	_____
5. Boat rentals	_____
6. Fishing supplies (rods, reels, tackle, special clothing, etc.)	_____
7. Boat	_____
8. Household owned boat costs (gas, repairs, moorage, etc.)	_____
9. Guide services	_____
10. Fishing licenses, permits and access fees	_____
11. Other (please specify) _____	_____
_____	_____

13. If you or members of your household fished in Canada outside P.E.I. in 1980, please estimate how much was spent elsewhere for sportfishing purposes in 1980:

$ _____ spent in other parts of Canada

SECTION C
TRIP INFORMATION

14. a) How many trips did you make to P.E.I. in 1980?

_____ trips.

b) How many days in total did you spend in P.E.I. in 1980 for all reasons?

_____ days.

15. a) On how many of your trips to P.E.I. in 1980 did you fish?

_____ trips.

b) For how many of these trips was fishing:

	Number of trips
- your main reason for visiting P.E.I.	_____
- a secondary reason	_____
- decided upon after arrival	_____

16. What type of accommodation did you use on your trips to P.E.I. in 1980?

Type of Accomodation	Trips on Which You Fished (please check)	Trips on Which You Did Not Fish
Friends and relatives	_____	_____
Tent or trailer	_____	_____
Fishing lodge or camp	_____	_____
Other commercial lodging	_____	_____
Other (please specify)	_____	_____
_____	_____	_____

17. How many persons in your household held a P.E.I. fishing licence in 1980?

_____

18. How would you rate fishing in P.E.I.?

Excellent	_____	Fair	_____
Very Good	_____	Poor	_____
Good	_____		

19. Do you intend to fish in P.E.I. in the future?

Yes _____ NO _____

20. If there had been no fishing opportunities in P.E.I., would you have:

	(✓)
- stayed a shorter time	_____
- substituted other activities	_____
- not come at all	_____

SECTION D
HOUSEHOLD PROFILE

To help us analyse all the information provided, we would appreciate some information about you and your household. ALL ANSWERS ARE CONFIDENTIAL.

18. Person who completed the questionnaire:

Your age: _____ years
Your sex: Male _____ Female _____

19. Would you please provide the following information about other members of your household. (If no days were fished, please enter "0").

	Age	Sex		Number of days fished in P.E.I. in 1980	
		Male	Female	Freshwater	Saltwater
1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____

SECTION E
YOUR COMMENTS

You are invited to comment on your fishing experiences and fishing opportunities in P.E.I. (for example, quality, costs, access, environment, hospitality, services, regulations, problems, etc.)

YOUR COOPERATION AND ASSISTANCE ARE APPRECIATED